

Work Order ID 159501

Wednesday, April 12, 2017 12:49:23 PM

159501

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Item ID: D2712 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Set Screw
Start Date: 4/12/2017 Start Qty: 200.00 ***200*** Cust Item ID:
Required Date: 4/18/2017 Req'd Qty: 200.00 ***200*** Customer:
Reference:

Approvals: Process Plan: DAS 13 9-89 Date: APR 12 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D2712	Rev B								

100 PURCHASING 0.00 ***100*** 200 APR 12 2017 DAS 13 9-89
Purchasing Memo 0.00
Purchasing Issue P/O: 35948 For Hex Head Set Screw P/N: 92311A599
as per Dwg D2712 Thread: 5/16-24UNF Length: 5/8" long SS Possible
Supplier: McMaster Material release note is required

110 Receive & Inspect for Damage & Mat'l Certs 0.00 ***110*** 200x SP 17-4-18
Packaging Memo 4.00
Packaging Ensure material release note is attached

120 QC6- Inspect dimensions to drawing 0.00 ***120*** 200 DAS 38 9-89
QC Memo 0.00
Quality Control

APR 19 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____					
☐ Misidentified	☐ Past Due						

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <u>Stop</u>	0.00							
130									
Packaging	Memo	2.00				200	DAS 6 9-89		APR 20 2017
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	20.00							17/4/24 JF
Quality Control									

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APR 20 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Work Order ID: 159501

159501

Parent Item: D2712

D2712

Parent Item Name: Set Screw

Start Date: 4/12/2017

Required Date: 4/18/2017

Start Qty: 200.00

Required Qty: 200.00

Comments: IPP: C05.09.13ReformatKJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
92311A599		Purchased	No			100	Each	0.0000	1	200			
92311A599									**				
SET SCREW													

200 SP17-4-18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									



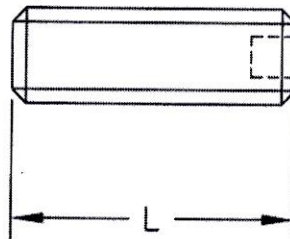
DESIGN DS	DRAWN BY CP	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED [Signature]	APPROVED [Signature]	DRAWING NO. D2712	REV. B SHEET 1 OF 1
DATE 05.05.04		TITLE SET SCREW	SCALE NTS
A	97.11.03	NEW ISSUE	
B	05.05.04	MATERIAL NOW SS ONLY	

RELEASED
05-09-06 [Signature]

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APR 12 2017

W/O: 159501



D2712 SET SCREW

- 1) TYPE: HEX SOCKET HEAD SET SCREW
- 2) THREAD: 5/16"-24 (UNF)
- 3) LENGTH: L = 5/8" TO 3/4"
- 4) MATERIAL: STAINLESS STEEL

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
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Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35948

Purchase Order Date 4/12/2017

PO Print Date 4/12/2017

Page Number 1 of 6

Order From :

VU-MCM001

Ship To : DART AEROSPACE LTD

MCMASTER-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

APR 12 2017

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
	Line Comments		Promise Date				
	Delivery Comments						
1	92311A599	SET SCREW	4/17/2017 Yes 4/17/2017		200.00 Each	\$0.20	\$40.52
	AS PER DWG D2712 REV. B B159501						
						Line Total:	\$40.52
2	91525A120	washer	4/17/2017 Yes 4/17/2017		50.00 Each	\$0.25	\$12.52
	AS PER DWG D3456 REV. A B159500						
						Line Total:	\$12.52
3	95606A170	Washer	4/17/2017 Yes 4/17/2017		100.00 Each	\$0.09	\$8.60
	AS PER DWG D3631 REV. A B159502						

Note:

4/12/2017



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada
Attention: Dan P, Eric L, Gary, Chantal, Cnc,
Regis

Purchase Order
PO35948
Order Placed By
Chantal Lavoie
McMaster-Carr Number
1831980-02

Page 1 of 2
04/12/2017

Line	Product	Ordered	Shipped
1	92311A599 18-8 Stainless Steel Cup-Point Set Screw 5/16"-24 Thread, 5/8" Long, Packs of 50	4 Packs	4
2	91525A120 316 Stainless Steel Washer Oversized, 1/4" Screw Size, 0.281" ID, 1" OD, Packs of 25	2 Packs	2
3	95606A170 Nylon Plastic Washer for 7/16" Screw Size, 0.5" ID, 0.688" OD, Off-White, Packs of 100	1 Pack	1
5	5963K21 High-Temperature Silicone Rubber Strip Super-Soft, 2" Wide x 36" Long, 1/4" Thick	2 Each	2
6	6391K269 Oil-Embedded Sleeve Bearing for 3/4" Shaft Diameter, 1" OD, 2" Length	4 Each	4
7	91259A705 Alloy Steel Shoulder Screw 1/2" Diameter x 3/8" Long Shoulder, 3/8"-16 Thread Size	20 Each	20
8	91251A242 Black-Oxide Alloy Steel Socket Head Screw 10-24 Thread Size, 1/2" Long, Packs of 100	2 Packs	2
9	7510A653 Plastic Syringe with Luer Lock Tip, 0.34 oz. Capacity, Packs of 10	10 Packs	10
10	7074T3 Swab Cotton, Wood Handle, 1/8" Diameter x 1/2" Long Tip, 6" Overall Length, Packs of 100	10 Packs	10
11	71455K68 9V Alkaline Disposable Batteries, Packs of 12	1 Pack	1
12	71455K63 Size C Alkaline Disposable Batteries, Packs of 72	1 Pack	1
13	5503A15 Ball-End L-Key 5/64" Size	5 Each	5
14	5503A22 Ball-End L-Key 3/16" Size	3 Each	3
15	5503A16 Ball-End L-Key 3/32" Size	3 Each	3
16	98025A133 Zinc Yellow-Chromate Plated Steel Oversized Washer Grade 8, for 1/2" Screw Size, 0.531" ID, 1.062" OD, Packs of 25	2 Packs	2

SP17-4-18

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Shipped separately from our Chicago warehouse on 04/12

4	8631K266 Abrasion-Resistant Polyurethane Rubber Square Bar 48" Long, 3" Thick, 60A Durometer	1 Each	1
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